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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/712,638	11/14/2000	Isidore Rigoutsos	YOR920000435US1	8850

7590

08/07/2003

Robert J Mauri
Ryan Mason & Lewis LLP
Suite 205
1300 Post Road
Fairfield, CT 06430

EXAMINER

LY, CHEYNE D

ART UNIT	PAPER NUMBER
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1631

10

DATE MAILED: 08/07/2003

Please find below and/or attached an Office communication concerning this application or proceeding.



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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
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EXAMINER

ART UNIT	PAPER
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10

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

The reply filed on May 27, 2003 is not fully responsive to the prior Office Action because of the following omission(s) or matter(s): The sequence listing has not been corrected as specified by Paper 5, mailed March 26, 2003 (See attached Raw Sequence Listing Error Report). See 37 CFR 1.111. Since the above-mentioned reply appears to be bona fide, applicant is given ONE (1) MONTH or THIRTY (30) DAYS from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (see 37 CFR § 1.6(d)). The CM1 Fax Center number is either (703) 308-4242 or (703) 305-3014.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. Dune Ly, whose telephone number is (703) 308-3880. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, Ph.D., can be reached on (703) 308-4028.

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instruments Examiner, Tina Plunkett, whose telephone number is (703) 305-3524 or to the Technical Center receptionist whose telephone number is (703) 308-0196.

C. Dune Ly
8/5/03

Attachment: Raw Sequence Listing Error Report


ARDIN H. MARSCHEL
PRIMARY EXAMINER



1600

RAW SEQUENCE LISTING

DATE: 05/30/2003

PATENT APPLICATION: US/09/712,638

TIME: 11:49:40

Input Set : A:\Sequence 1.ST25.txt

Output Set: N:\CRF4\05302003\I712638.raw

3 <110> APPLICANT: IBM Corporation

5 <120> TITLE OF INVENTION: Unsupervised Building and Exploitation of Composite

Descriptors

7 <130> FILE REFERENCE: YOR920000435US1

9 <140> CURRENT APPLICATION NUMBER: US 09/712,638

10 <141> CURRENT FILING DATE: 2000-11-14

12 <160> NUMBER OF SEQ ID NOS: 59

14 <170> SOFTWARE: PatentIn version 3.2

ERRORED SEQUENCES

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17 <211> LENGTH: 60

18 <212> TYPE: PRT

19 <213> ORGANISM: Xenopus laevis

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24 1 5 10 15

27 Lys Pro Leu Ile Ala Ala Gln Tyr Ser Gly Phe Pro Ile Lys Val Ala

28 20 25 30

31 Ser Ser Ala Pro Glu Phe Gln Phe Gly Val Thr Asn Lys Thr Pro Glu

32 35 40 45

35 Phe Leu Lys Lys Phe Pro Leu Gly Lys Val Pro Ala

36 50 55 60

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41 <212> TYPE: PRT

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48 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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53 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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57 <222> LOCATION: (39)..(60)

58 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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63 1 5 10 15

(global error)
do NOT insert alphabetical headings in a "new" sequence

Does Not Comply
Corrected Diskette Needed

see pp 1-20

Rules
format
Sequence
Listing

(The CRF
software will
insert alphabetical
headings for
clarity)

RAW SEQUENCE LISTING

DATE: 05/30/2003

PATENT APPLICATION: US/09/712,638

TIME: 11:49:40

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Output Set: N:\CRF4\05302003\I712638.raw

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67 20 25 30
70 Leu Val Ala Ala Glu Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
71 35 40 45
74 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
75 50 55 60

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79 <211> LENGTH: 60

80 <212> TYPE: PRT

81 <213> ORGANISM: Xenopus laevis

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86 1 5 10 15
89 His Tyr Val Gly Asn Asp Glu Leu Arg Gly Thr Thr Arg Leu His Gln
90 20 25 30
93 Ala Gln Val Ile Gln Trp Val Ser Phe Ser Asp Ser His Ile Val Pro
94 35 40 45
97 Pro Ala Ser Ala Trp Val Phe Pro Thr Leu Gly Ile
98 50 55 60

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110 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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120 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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128 Xaa Xaa Xaa Gly Asn Ala Lys Gln Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gln
129 20 25 30
132 Ser Gln Val Trp Gln Trp Leu Ser Phe Ala Asp Asn Glu Leu Thr Pro
133 35 40 45
136 Val Ser Cys Ala Val Val Phe Pro Leu Met Gly Met
137 50 55 60

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142 <212> TYPE: PRT

143 <213> ORGANISM: Xenopus laevis

E--> 145 <400> SEQUENCE: 5

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/712,638

DATE: 05/30/2003

TIME: 11:49:40

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Output Set: N:\CRF4\05302003\I712638.raw

147 Met Gln Tyr Asn Lys Gln Ala Thr Glu Gln Ala Lys Glu Gly Ile Lys
148 1 5 10 15
151 Thr Val Leu Gly Val Leu Asp Ser His Leu Gln Thr Arg Thr Phe Leu
152 20 25 30
155 Val Gly Glu Arg Ile Thr Leu Ala Asp Ile Thr Val Thr Cys Ser Leu
156 35 40 45
159 Leu Trp Leu Tyr Lys Gln Val Leu Glu Pro Ser Phe
160 50 55 60

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164 <211> LENGTH: 60

165 <212> TYPE: PRT

166 <213> ORGANISM: Fugu rubripes

E--> 168 <400> SEQUENCE: 6

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171 1 5 10 15
174 Arg Val Leu Lys Val Leu Asp Gln Ala Leu Glu Pro Arg Thr Phe Leu
175 20 25 30
178 Val Gly Glu Ser Ile Thr Leu Ala Asp Met Ala Val Ala Met Ala Val
179 35 40 45
182 Leu Leu Pro Phe Lys Tyr Val Leu Glu Pro Ser Asp
183 50 55 60

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187 <211> LENGTH: 60

188 <212> TYPE: PRT

189 <213> ORGANISM: Xenopus laevis

E--> 191 <400> SEQUENCE: 7

193 Arg Gln Pro Phe Gly Asn Val Thr Arg Trp Phe Val Thr Cys Val Asn
194 1 5 10 15
197 Gln Pro Glu Phe Arg Ala Val Leu Gly Glu Val Lys Leu Cys Asp Lys
198 20 25 30
201 Met Ala Gln Phe Asp Ala Lys Lys Phe Ala Glu Met Gln Pro Lys Lys
202 35 40 45
205 Glu Thr Pro Lys Lys Glu Lys Pro Ala Lys Glu Pro
206 50 55 60

E--> 209 <210> SEQ ID NO: ~~SEQ ID NO 8~~

210 <211> LENGTH: 59

211 <212> TYPE: PRT

212 <213> ORGANISM: Fugu rubripes

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216 Arg Asn Val Leu Met Asn Val Thr Arg Trp Phe Thr Thr Cys Ile Asn
217 1 5 10 15
220 Gln Pro Glu Phe Leu Lys Val Leu Gly Lys Ile Ser Leu Cys Glu Lys
221 20 25 30
224 Met Val Pro Val Thr Ala Lys Thr Ser Thr Glu Glu Ala Ala Val
225 35 40 45
228 His Pro Asp Ala Ala Ala Leu Asn Gly Pro Pro
229 50 55

E--> 232 <210> SEQ ID NO: ~~SEQ ID NO 9~~

233 <211> LENGTH: 60

RAW SEQUENCE LISTING

DATE: 05/30/2003

PATENT APPLICATION: US/09/712,638

TIME: 11:49:40

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Output Set: N:\CRF4\05302003\I712638.raw

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238 <220> FEATURE:
239 <221> NAME/KEY: misc_feature
240 <222> LOCATION: (44)..(44)
241 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 243 <400> SEQUENCE: 9

245 Lys Lys Glu Lys Glu Glu Lys Lys Lys Ala Ala Pro Thr Pro Ala Pro
246 1 5 10 15
249 Ala Pro Glu Asp Asp Leu Asp Glu Ser Glu Lys Ala Leu Ala Ala Glu
250 20 25 30
253 Pro Lys Ser Lys Asp Pro Tyr Ala His Leu Pro Xaa Lys Ser Ser Phe
254 35 40 45
257 Ile Met Asp Glu Phe Lys Arg Lys Tyr Ser Asn Glu
258 50 55 60

E--> 261 <210> SEQ ID NO: ~~SEQ ID NO 10~~

262 <211> LENGTH: 60
263 <212> TYPE: PRT
264 <213> ORGANISM: Fugu rubripes

E--> 266 <400> SEQUENCE: 10

268 Lys Thr Glu Ala Gln Leu Lys Lys Glu Ala Lys Lys Arg Glu Lys Leu
269 1 5 10 15
272 Glu Lys Phe Gln Gln Lys Lys Glu Met Glu Ala Lys Lys Lys Met Gln
273 20 25 30
276 Pro Val Ala Glu Lys Lys Ala Lys Pro Glu Lys Arg Glu Leu Gly Val
277 35 40 45
280 Ile Thr Tyr Asp Ile Pro Thr Pro Ser Gly Glu Lys
281 50 55 60

E--> 284 <210> SEQ ID NO: ~~SEQ ID NO 11~~

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286 <212> TYPE: PRT
287 <213> ORGANISM: Xenopus laevis
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292 <222> LOCATION: (12)..(12)
293 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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297 <222> LOCATION: (28)..(28)
298 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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302 <222> LOCATION: (51)..(51)
303 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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307 Asp Thr Leu Thr Val Ala Leu Pro Tyr Phe Trp Xaa Glu His Phe Asp
308 1 5 10 15
311 Lys Glu Gly Trp Ser Ile Trp Tyr Ala Glu Tyr Xaa Lys Phe Pro Glu
312 20 25 30

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/712,638

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TIME: 11:49:40

Input Set : A:\Sequence 1.ST25.txt

Output Set: N:\CRF4\05302003\I712638.raw

315 Glu Leu Thr Gln Ala Phe Met Ser Cys Asn Leu Ile Thr Gly Met Phe
316 35 40 45
319 Gln Arg Xaa Leu Asp Lys Leu Arg Lys Thr Gly Phe
320 50 55 60

E--> 323 <210> SEQ ID NO: ~~SEQ ID NO 12~~

324 <211> LENGTH: 60

325 <212> TYPE: PRT

326 <213> ORGANISM: Fugu rubripes

E--> 328 <400> SEQUENCE: 12

330 Lys Asp Val Val Ser Pro Leu Pro Asp Ser Tyr Ser Pro Gln Tyr Val
331 1 5 10 15
334 Glu Ala Ala Trp Tyr Pro Trp Trp Glu Lys Gln Gly Phe Phe Lys Pro
335 20 25 30
338 Glu Phe Gly Arg Lys Ser Ile Gly Glu Gln Asn Pro Arg Gly Ile Phe
339 35 40 45
342 Met Met Cys Ile Pro Pro Pro Asn Val Thr Gly Ser
343 50 55 60

E--> 346 <210> SEQ ID NO: ~~SEQ ID NO 13~~

347 <211> LENGTH: 60

348 <212> TYPE: PRT

349 <213> ORGANISM: Xenopus laevis

352 <220> FEATURE:

353 <221> NAME/KEY: misc_feature

354 <222> LOCATION: (20)..(20)

355 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

357 <220> FEATURE:

358 <221> NAME/KEY: misc_feature

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360 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

362 <220> FEATURE:

363 <221> NAME/KEY: misc_feature

364 <222> LOCATION: (59)..(60)

365 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 367 <400> SEQUENCE: 13

369 Ala Ser Val Ile Leu Phe Gly Thr Asn Asn Asn Ser Ser Ile Ser Gly
370 1 5 10 15
373 Val Trp Val Xaa Phe Arg Gly Gln Asp Leu Ala Phe Thr Leu Ser Glu
374 20 25 30
377 Asp Xaa Xaa Xaa Xaa Xaa Trp Gln Ile Asp Tyr Glu Ser Tyr Asn Trp
378 35 40 45
381 Arg Lys Leu Asp Ser Gly Ser Glu Glu Cys Xaa Xaa
382 50 55 60

E--> 385 <210> SEQ ID NO: ~~SEQ ID NO 14~~

386 <211> LENGTH: 60

387 <212> TYPE: PRT

388 <213> ORGANISM: Fugu rubripes

E--> 390 <400> SEQUENCE: 14

392 Leu His Leu Gly His Ala Leu Thr Asn Ala Ile Gln Asp Thr Leu Thr
393 1 5 10 15

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/712,638

DATE: 05/30/2003

TIME: 11:49:40

Input Set : A:\Sequence 1.ST25.txt

Output Set: N:\CRF4\05302003\I712638.raw

396 Arg Trp His Arg Met Arg Gly Glu Thr Thr Leu Trp Asn Pro Gly Cys
397 20 25 30
400 Asp His Ala Gly Ile Ala Thr Gln Val Val Val Glu Lys Lys Leu Met
401 35 40 45
404 Arg Glu Lys Gly Thr Ser Arg His Asp Leu Gly Arg
405 50 55 60

E--> 408 <210> SEQ ID NO: ~~SEQ ID NO 15~~

409 <211> LENGTH: 60

410 <212> TYPE: PRT

411 <213> ORGANISM: Xenopus laevis

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417 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

419 <220> FEATURE:

420 <221> NAME/KEY: misc_feature

421 <222> LOCATION: (33)..(33)

422 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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425 <221> NAME/KEY: misc_feature

426 <222> LOCATION: (38)..(60)

427 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 429 <400> SEQUENCE: 15

431 Lys Thr Leu Val Lys Glu Tyr Phe Ala Trp Glu Gly Glu Xaa Xaa Xaa
432 1 5 10 15
435 Xaa Xaa Xaa Xaa Xaa Phe Lys Asn Val Gly Lys Pro Phe Asn Gln Gly
436 20 25 30
439 Xaa Lys Ile Phe Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
440 35 40 45
443 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
444 50 55 60

E--> 447 <210> SEQ ID NO: ~~SEQ ID NO 16~~

448 <211> LENGTH: 60

449 <212> TYPE: PRT

450 <213> ORGANISM: Fugu rubripes

E--> 452 <400> SEQUENCE: 16

454 Glu Lys Phe Ile Glu Glu Val Trp Lys Trp Lys Asn Glu Lys Gly Asp
455 1 5 10 15
458 Arg Ile Tyr His Gln Leu Lys Lys Leu Gly Ser Ser Leu Asp Trp Asp
459 20 25 30
462 Arg Ala Cys Phe Thr Met Asp Pro Lys Leu Ser Tyr Ala Val Gln Glu
463 35 40 45
466 Ala Phe Ile Arg Met His Asp Glu Gly Val Ile Tyr
467 50 55 60

E--> 470 <210> SEQ ID NO: ~~SEQ ID NO 17~~

471 <211> LENGTH: 60

472 <212> TYPE: PRT

473 <213> ORGANISM: Mus musculus

476 <220> FEATURE:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/712,638

DATE: 05/30/2003

TIME: 11:49:40

Input Set : A:\Sequence 1.ST25.txt

Output Set: N:\CRF4\05302003\I712638.raw

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479 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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483 <222> LOCATION: (59)..(59)
484 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 486 <400> SEQUENCE: 17
488 Xaa Val Leu Glu Leu Tyr Leu Asp Leu Leu Ser Gln Pro Cys Arg Ala
489 1 5 10 15
492 Ile Tyr Ile Phe Ala Lys Lys Asn Asn Ile Pro Phe Gln Met His Thr
493 20 25 30
496 Val Glu Leu Arg Lys Gly Glu His Leu Ser Asp Ala Phe Ala Arg Val
497 35 40 45
500 Asn Pro Met Lys Lys Val Pro Ala Met Met Xaa Asp
501 50 55 60

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506 <212> TYPE: PRT
507 <213> ORGANISM: Rattus norvegicus
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512 <222> LOCATION: (1)..(1)
513 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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517 <222> LOCATION: (59)..(59)
518 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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522 Xaa Val Leu Glu Leu Tyr Leu Asp Leu Leu Ser Gln Pro Cys Arg Ala
523 1 5 10 15
526 Ile Tyr Ile Phe Ala Lys Lys Asn Asn Ile Pro Phe Gln Met His Thr
527 20 25 30
530 Val Glu Leu Arg Lys Gly Glu His Leu Ser Asp Ala Phe Ala Gln Val
531 35 40 45
534 Asn Pro Met Lys Lys Val Pro Ala Met Lys Xaa Asp
535 50 55 60

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539 <211> LENGTH: 60
540 <212> TYPE: PRT
541 <213> ORGANISM: Artemia salina

E--> 543 <400> SEQUENCE: 19
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546 1 5 10 15
549 Ala Leu Ile Ala Ala Gln Tyr Ser Gly Ala Lys Leu Glu Ile Ala Lys
550 20 25 30
553 Ser Phe Val Phe Gly Glu Thr Asn Lys Ser Asp Ala Phe Leu Lys Ser
554 35 40 45
557 Phe Pro Leu Gly Lys Val Pro Ala Phe Glu Ser Ala

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/712,638

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TIME: 11:49:40

Input Set : A:\Sequence 1.ST25.txt

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564 <213> ORGANISM: Mus musculus
567 <220> FEATURE:
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569 <222> LOCATION: (19)..(42)
570 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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578 His Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
579 20 25 30
582 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr Lys Val Pro Asp His
583 35 40 45
586 Trp Tyr Pro Gln Asp Leu Gln Ala Arg Ala Arg Val
587 50 55 60

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593 <213> ORGANISM: Rattus norvegicus
596 <220> FEATURE:
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598 <222> LOCATION: (19)..(42)
599 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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603 Gly Gly Phe Thr Leu Cys Glu Ser Val Ala Ile Leu Leu Tyr Leu Ala
604 1 5 10 15
607 His Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
608 20 25 30
611 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr Lys Val Pro Asp His
612 35 40 45
615 Trp Tyr Pro Gln Asp Leu Gln Ala Arg Ala Arg Val
616 50 55 60

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620 <211> LENGTH: 60
621 <212> TYPE: PRT
622 <213> ORGANISM: Artemia salina

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627 1 5 10 15
630 Asn Glu Thr Leu Arg Gly Ser Ser Asp Leu Glu Lys Ala Gln Ile Ile
631 20 25 30
634 Gln Trp Met Thr Phe Ala Asp Thr Glu Ile Leu Pro Ala Ser Cys Thr
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639 50 55 60

E--> 642 <210> SEQ ID NO: ~~SEQ ID NO 23~~

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/712,638

DATE: 05/30/2003

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Output Set: N:\CRF4\05302003\I712638.raw

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645 <213> ORGANISM: Mus musculus
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653 Arg Ala Leu Trp His Lys Val Met Phe Pro Val Phe Leu Gly Glu Gln
654 20 25 30
657 Ile Pro Pro Glu Thr Leu Ala Ala Thr Leu Ala Glu Leu Asp Val Asn
658 35 40 45
661 Leu Gln Val Leu Glu Asp Lys Phe Leu Gln Asp Lys
662 50 55 60
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667 <212> TYPE: PRT
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673 1 5 10 15
676 Arg Thr Leu Trp His Lys Val Met Phe Pro Val Phe Leu Gly Glu Gln
677 20 25 30
680 Ile Arg Pro Glu Met Leu Ala Ala Thr Leu Ala Asp Leu Asp Val Asn
681 35 40 45
684 Val Gln Val Leu Glu Asp Gln Phe Leu Gln Asp Lys
685 50 55 60
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690 <212> TYPE: PRT
691 <213> ORGANISM: Artemia salina
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696 1 5 10 15
699 Ala Leu Asp Asp His Leu Leu Thr Arg Thr Tyr Leu Val Gly Glu Arg
700 20 25 30
703 Ile Thr Leu Ala Asp Ile Val Val Thr Cys Thr Leu Leu His Leu Tyr
704 35 40 45
707 Gln His Val Leu Asp Glu Ala Phe Arg Lys Ser Tyr
708 50 55 60
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713 <212> TYPE: PRT
714 <213> ORGANISM: Mus musculus
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719 1 5 10 15
722 Thr Glu Leu Met His Pro Val Gly Gly Cys Pro Val Phe Glu Gly
723 20 25 30
726 His Pro Arg Leu Ala Ala Trp Tyr Gln Arg Val Glu Ala Ala Val Gly
727 35 40 45

RAW SEQUENCE LISTING

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Input Set : A:\Sequence 1.ST25.txt

Output Set: N:\CRF4\05302003\I712638.raw

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736 <212> TYPE: PRT
737 <213> ORGANISM: Rattus norvegicus
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745 Thr Glu Leu Met His Pro Val Gly Gly Gly Cys Pro Val Phe Glu Gly
746      20                      25                      30
749 Arg Pro Arg Leu Ala Ala Trp Tyr Arg Arg Val Glu Ala Ala Val Gly
750      35                      40                      45
753 Lys Asp Leu Phe Leu Glu Ala His Glu Val Ile Leu
754      50                      55                      60
E--> 757 <210> SEQ ID NO: SEQ ID NO 28
758 <211> LENGTH: 60
759 <212> TYPE: PRT
760 <213> ORGANISM: Artemia salina
763 <220> FEATURE:
764 <221> NAME/KEY: misc_feature
765 <222> LOCATION: (35)..(37)
766 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
E--> 768 <400> SEQUENCE: 28
770 Val Asn Thr Asn Arg Trp Phe Ile Thr Leu Ile Asn Gln Lys Gln Val
771 1      5                      10                      15
774 Lys Ala Val Ile Gly Asp Phe Lys Leu Cys Glu Lys Ala Gly Glu Phe
775      20                      25                      30
778 Asp Pro Xaa Xaa Xaa Lys Lys Tyr Ala Glu Phe Gln Ala Ala Ile Gly
779      35                      40                      45
782 Ser Gly Glu Lys Lys Lys Thr Glu Lys Ala Pro Lys
783      50                      55                      60
E--> 786 <210> SEQ ID NO: SEQ ID NO 29
787 <211> LENGTH: 60
788 <212> TYPE: PRT
789 <213> ORGANISM: Mus musculus
792 <220> FEATURE:
793 <221> NAME/KEY: misc_feature
794 <222> LOCATION: (26)..(60)
795 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
E--> 797 <400> SEQUENCE: 29
799 Lys Val Lys Asp Cys Pro Pro Ala Asp Leu Ile Ile Lys Gln Lys Leu
800 1      5                      10                      15
803 Met Pro Arg Val Leu Thr Met Ile Gln Xaa Xaa Xaa Xaa Xaa Xaa Xaa
804      20                      25                      30
807 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
808      35                      40                      45
811 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
812      50                      55                      60

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Input Set : A:\Sequence 1.ST25.txt

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E--> 815 <210> SEQ ID NO: ~~SEQ ID NO 30~~
816 <211> LENGTH: 60
817 <212> TYPE: PRT
818 <213> ORGANISM: Rattus norvegicus
821 <220> FEATURE:
822 <221> NAME/KEY: misc_feature
823 <222> LOCATION: (26)..(60)
824 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 826 <400> SEQUENCE: 30
828 Lys Val Arg Asp Cys Pro Pro Ala Asp Pro Val Ile Lys Gln Lys Leu
829 1 5 10 15
832 Met Pro Arg Val Leu Thr Met Ile Gln Xaa Xaa Xaa Xaa Xaa Xaa Xaa
833 20 25 30
836 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
837 35 40 45
840 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
841 50 55 60

E--> 844 <210> SEQ ID NO: ~~SEQ ID NO 31~~
845 <211> LENGTH: 60
846 <212> TYPE: PRT
847 <213> ORGANISM: Artemia salina

E--> 849 <400> SEQUENCE: 31
851 Ala Val Lys Ala Lys Pro Glu Lys Lys Glu Val Pro Lys Lys Glu Gln
852 1 5 10 15
855 Glu Glu Pro Ala Asp Ala Ala Glu Glu Ala Leu Ala Ala Glu Pro Lys
856 20 25 30
859 Ser Lys Asp Pro Phe Asp Glu Met Pro Lys Gly Thr Phe Asn Met Asp
860 35 40 45
863 Asp Phe Lys Arg Phe Tyr Ser Asn Asn Glu Glu Thr
864 50 55 60

E--> 867 <210> SEQ ID NO: ~~SEQ ID NO 32~~
868 <211> LENGTH: 60
869 <212> TYPE: PRT
870 <213> ORGANISM: Mus musculus
873 <220> FEATURE:
874 <221> NAME/KEY: misc_feature
875 <222> LOCATION: (1)..(60)
876 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 878 <400> SEQUENCE: 32
880 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
881 1 5 10 15
884 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
885 20 25 30
888 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
889 35 40 45
892 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
893 50 55 60

E--> 896 <210> SEQ ID NO: ~~SEQ ID NO 33~~
897 <211> LENGTH: 60

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Output Set: N:\CRF4\05302003\I712638.raw

898 <212> TYPE: PRT

899 <213> ORGANISM: Rattus norvegicus

902 <220> FEATURE:

903 <221> NAME/KEY: misc_feature

904 <222> LOCATION: (1)..(60)

905 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 907 <400> SEQUENCE: 33

909 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

910 1 5 10 15

913 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

914 20 25 30

917 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

918 35 40 45

921 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

922 50 55 60

E--> 925 <210> SEQ ID NO: ~~SEQ ID NO~~ 34

926 <211> LENGTH: 60

927 <212> TYPE: PRT

928 <213> ORGANISM: Artemia salina

E--> 930 <400> SEQUENCE: 34

932 Lys Ser Ile Pro Tyr Phe Trp Glu Lys Phe Asp Lys Glu Asn Tyr Ser

933 1 5 10 15

936 Ile Trp Tyr Ser Glu Tyr Lys Tyr Gln Asp Glu Leu Ala Lys Val Tyr

937 20 25 30

940 Met Ser Cys Asn Leu Ile Thr Gly Met Phe Gln Arg Ile Glu Lys Met

941 35 40 45

944 Arg Lys Gln Ala Phe Ala Ser Val Cys Val Phe Gly

945 50 55 60

E--> 948 <210> SEQ ID NO: ~~SEQ ID NO~~ 35

949 <211> LENGTH: 60

950 <212> TYPE: PRT

951 <213> ORGANISM: Mus musculus

954 <220> FEATURE:

955 <221> NAME/KEY: misc_feature

956 <222> LOCATION: (1)..(60)

957 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 959 <400> SEQUENCE: 35

961 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

962 1 5 10 15

965 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

966 20 25 30

969 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

970 35 40 45

973 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

974 50 55 60

E--> 977 <210> SEQ ID NO: ~~SEQ ID NO~~ 36

978 <211> LENGTH: 60

979 <212> TYPE: PRT

980 <213> ORGANISM: Rattus norvegicus

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Input Set : A:\Sequence 1.ST25.txt

Output Set: N:\CRF4\05302003\I712638.raw

983 <220> FEATURE:

984 <221> NAME/KEY: misc_feature

985 <222> LOCATION: (1)..(60)

986 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 988 <400> SEQUENCE: 36

990 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

991 1 5 10 15

994 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

995 20 25 30

998 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

999 35 40 45

1002 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1003 50 55 60

E--> 1006 <210> SEQ ID NO: ~~SEQ ID NO~~ 37

1007 <211> LENGTH: 60

1008 <212> TYPE: PRT

1009 <213> ORGANISM: Artemia salina

E--> 1011 <400> SEQUENCE: 37

1013 Glu Asp Asn Asp Ser Ser Ile Ser Gly Ile Trp Val Trp Arg Gly Gln

1014 1 5 10 15

1017 Asp Leu Ala Phe Lys Leu Ser Pro Asp Trp Gln Ile Asp Tyr Glu Ser

1018 20 25 30

1021 Tyr Asp Trp Lys Lys Leu Asp Pro Asp Ala Gln Glu Thr Lys Asp Leu

1022 35 40 45

1025 Val Thr Gln Tyr Phe Thr Trp Thr Gly Thr Asp Lys

1026 50 55 60

E--> 1029 <210> SEQ ID NO: ~~SEQ ID NO~~ 38

1030 <211> LENGTH: 12

1031 <212> TYPE: PRT

1032 <213> ORGANISM: Mus musculus

1035 <220> FEATURE:

1036 <221> NAME/KEY: misc_feature

1037 <222> LOCATION: (1)..(12)

1038 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 1040 <400> SEQUENCE: 38

1042 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1043 1 5 10

E--> 1046 <210> SEQ ID NO: ~~SEQ ID NO~~ 39

1047 <211> LENGTH: 12

1048 <212> TYPE: PRT

1049 <213> ORGANISM: Rattus norvegicus

1052 <220> FEATURE:

1053 <221> NAME/KEY: misc_feature

1054 <222> LOCATION: (1)..(12)

1055 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 1057 <400> SEQUENCE: 39

1059 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1060 1 5 10

E--> 1063 <210> SEQ ID NO: ~~SEQ ID NO~~ 40

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Input Set : A:\Sequence 1.ST25.txt

Output Set: N:\CRF4\05302003\I712638.raw

1064 <211> LENGTH: 12
1065 <212> TYPE: PRT
1066 <213> ORGANISM: Artemia salina
E--> 1068 <400> SEQUENCE: 40
1070 Gln Gly Arg Lys Phe Asn Gln Gly Lys Ile Phe Lys
1071 1 5 10
E--> 1074 <210> SEQ ID NO: ~~SEQ ID NO 41~~
1075 <211> LENGTH: 60
1076 <212> TYPE: PRT
1077 <213> ORGANISM: Caenorhabditis elegans
1080 <220> FEATURE:
1081 <221> NAME/KEY: misc_feature
1082 <222> LOCATION: (1)..(4)
1083 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1085 <220> FEATURE:
1086 <221> NAME/KEY: misc_feature
1087 <222> LOCATION: (8)..(10)
1088 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1090 <220> FEATURE:
1091 <221> NAME/KEY: misc_feature
1092 <222> LOCATION: (19)..(20)
1093 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
E--> 1095 <400> SEQUENCE: 41
1097 Xaa Xaa Xaa Xaa Asn Phe Asp Xaa Xaa Xaa Lys Lys Thr Val Glu Gln
1098 1 5 10 15
1101 Tyr Lys Xaa Xaa Asn Glu Leu Asn Gly Gln Leu Gln Val Leu Asp Arg
1102 20 25 30
1105 Val Leu Val Lys Lys Thr Tyr Leu Val Gly Glu Arg Leu Ser Leu Ala
1106 35 40 45
1109 Asp Val Ser Val Ala Leu Asp Leu Leu Pro Ala Phe
1110 50 55 60
E--> 1113 <210> SEQ ID NO: ~~SEQ ID NO 42~~
1114 <211> LENGTH: 60
1115 <212> TYPE: PRT
1116 <213> ORGANISM: Homo sapien
E--> 1118 <400> SEQUENCE: 42
1120 Met Glu His Thr Glu Ile Asp His Trp Leu Glu Phe Ser Ala Thr Lys
1121 1 5 10 15
1124 Leu Ser Ser Cys Asp Ser Phe Thr Ser Thr Ile Asn Glu Leu Asn His
1125 20 25 30
1128 Cys Leu Ser Leu Arg Thr Tyr Leu Val Gly Asn Ser Leu Ser Leu Ala
1129 35 40 45
1132 Asp Leu Cys Val Trp Ala Thr Leu Lys Gly Asn Ala
1133 50 55 60
E--> 1136 <210> SEQ ID NO: ~~SEQ ID NO 43~~
1137 <211> LENGTH: 60
1138 <212> TYPE: PRT
1139 <213> ORGANISM: Caenorhabditis elegans
1142 <220> FEATURE:

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Input Set : A:\Sequence 1.ST25.txt

Output Set: N:\CRF4\05302003\I712638.raw

1143 <221> NAME/KEY: misc_feature
1144 <222> LOCATION: (32)..(33)
1145 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1147 <220> FEATURE:
1148 <221> NAME/KEY: misc_feature
1149 <222> LOCATION: (43)..(43)
1150 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1152 <220> FEATURE:
1153 <221> NAME/KEY: misc_feature
1154 <222> LOCATION: (46)..(46)
1155 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1157 <220> FEATURE:
1158 <221> NAME/KEY: misc_feature
1159 <222> LOCATION: (51)..(52)
1160 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1162 <220> FEATURE:
1163 <221> NAME/KEY: misc_feature
1164 <222> LOCATION: (60)..(60)
1165 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
E--> 1167 <400> SEQUENCE: 43
1169 Gln Tyr Val Leu Asp Ala Asn Ala Arg Lys Ser Ile Val Asn Val Thr
1170 1 5 10 15
1173 Arg Trp Phe Arg Thr Val Val Asn Gln Pro Ala Val Lys Glu Val Xaa
1174 20 25 30
1177 Xaa Leu Gly Glu Val Ser Leu Ala Ser Ser Xaa Val Ala Xaa Gln Phe
1178 35 40 45
1181 Asn Gln Xaa Xaa Ala Lys Phe Thr Glu Leu Ser Xaa
1182 50 55 60
E--> 1185 <210> SEQ ID NO: ~~SEQ ID NO~~ 44
1186 <211> LENGTH: 60
1187 <212> TYPE: PRT
1188 <213> ORGANISM: Homo sapien
E--> 1190 <400> SEQUENCE: 44
1192 Ala Trp Gln Glu Gln Leu Lys Gln Lys Lys Ala Pro Val His Val Lys
1193 1 5 10 15
1196 Arg Trp Phe Gly Phe Leu Glu Ala Gln Gln Ala Phe Gln Ser Val Gly
1197 20 25 30
1200 Thr Lys Trp Asp Val Ser Thr Thr Lys Ala Arg Val Ala Pro Glu Lys
1201 35 40 45
1204 Lys Gln Asp Val Gly Lys Phe Val Glu Leu Pro Gly
1205 50 55 60
E--> 1208 <210> SEQ ID NO: ~~SEQ ID NO~~ 45
1209 <211> LENGTH: 60
1210 <212> TYPE: PRT
1211 <213> ORGANISM: Caenorhabditis elegans
1214 <220> FEATURE:
1215 <221> NAME/KEY: misc_feature
1216 <222> LOCATION: (1)..(3)
1217 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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Input Set : A:\Sequence 1.ST25.txt

Output Set: N:\CRF4\05302003\I712638.raw

1219 <220> FEATURE:
1220 <221> NAME/KEY: misc_feature
1221 <222> LOCATION: (27)..(28)
1222 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1224 <220> FEATURE:
1225 <221> NAME/KEY: misc_feature
1226 <222> LOCATION: (32)..(36)
1227 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1229 <220> FEATURE:
1230 <221> NAME/KEY: misc_feature
1231 <222> LOCATION: (38)..(44)
1232 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1234 <220> FEATURE:
1235 <221> NAME/KEY: misc_feature
1236 <222> LOCATION: (47)..(47)
1237 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1239 <220> FEATURE:
1240 <221> NAME/KEY: misc_feature
1241 <222> LOCATION: (55)..(55)
1242 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1244 <220> FEATURE:
1245 <221> NAME/KEY: misc_feature
1246 <222> LOCATION: (59)..(60)
1247 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 1249 <400> SEQUENCE: 45

1251 Xaa Xaa Xaa Ala Lys Val Ala Lys Ser Ala Pro Lys Ala Glu Lys Pro
1252 1 5 10 15
1255 Lys Lys Glu Ala Lys Pro Ala Ala Ala Xaa Xaa Ala Gln Pro Xaa
1256 20 25 30
1259 Xaa Xaa Xaa Xaa Glu Xaa Xaa Xaa Xaa Xaa Xaa Asp Asp Xaa Glu
1260 35 40 45
1263 Pro Lys Glu Glu Lys Ser Xaa Lys Asp Pro Xaa Xaa
1264 50 55 60

E--> 1267 <210> SEQ ID NO: ~~SEQ ID NO~~ 46

1268 <211> LENGTH: 60
1269 <212> TYPE: PRT
1270 <213> ORGANISM: Homo sapien

E--> 1272 <400> SEQUENCE: 46

1274 Ala Glu Met Gly Lys Val Thr Val Arg Phe Pro Pro Glu Ala Ser Gly
1275 1 5 10 15
1278 Tyr Leu His Ile Gly His Ala Lys Ala Ala Leu Leu Asn Gln His Tyr
1279 20 25 30
1282 Gln Val Asn Phe Lys Gly Lys Leu Ile Met Arg Phe Asp Asp Thr Asn
1283 35 40 45
1286 Pro Glu Lys Glu Lys Glu Asp Phe Glu Lys Val Ile
1287 50 55 60

E--> 1290 <210> SEQ ID NO: ~~SEQ ID NO~~ 47

1291 <211> LENGTH: 60
1292 <212> TYPE: PRT

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Input Set : A:\Sequence 1.ST25.txt

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1293 <213> ORGANISM: Oryctolagus cuniculus

E--> 1295 <400> SEQUENCE: 47

1297 Met Ala Ala Gly Thr Leu Tyr Thr Tyr Pro Glu Asn Trp Arg Ala Phe
1298 1 5 10 15
1301 Lys Ala Leu Ile Ala Ala Gln Tyr Ser Gly Ala Gln Val Arg Val Leu
1302 20 25 30
1305 Ser Ala Pro Pro His Phe His Phe Gly Gln Thr Asn Arg Thr Pro Glu
1306 35 40 45
1309 Phe Leu Arg Lys Phe Pro Ala Gly Lys Val Pro Ala
1310 50 55 60

E--> 1313 <210> SEQ ID NO: ~~SEQ ID NO~~ 48

1314 <211> LENGTH: 60
1315 <212> TYPE: PRT
1316 <213> ORGANISM: Zea mays
1319 <220> FEATURE:
1320 <221> NAME/KEY: misc_feature
1321 <222> LOCATION: (1)..(1)
1322 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1324 <220> FEATURE:
1325 <221> NAME/KEY: misc_feature
1326 <222> LOCATION: (43)..(43)
1327 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 1329 <400> SEQUENCE: 48

1331 Xaa Ala Thr Pro Ala Val Lys Val Tyr Gly Trp Ala Ile Ser Pro Phe
1332 1 5 10 15
1335 Val Ser Arg Ala Leu Leu Ala Leu Glu Glu Ala Gly Val Asp Tyr Glu
1336 20 25 30
1339 Leu Val Pro Met Ser Arg Gln Asp Gly Asp Xaa His Arg Arg Pro Glu
1340 35 40 45
1343 His Leu Ala Arg Asn Pro Phe Gly Lys Val Pro Val
1344 50 55 60

E--> 1347 <210> SEQ ID NO: ~~SEQ ID NO~~ 49

1348 <211> LENGTH: 60
1349 <212> TYPE: PRT
1350 <213> ORGANISM: Oryctolagus cuniculus
1353 <220> FEATURE:
1354 <221> NAME/KEY: misc_feature
1355 <222> LOCATION: (21)..(24)
1356 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1358 <220> FEATURE:
1359 <221> NAME/KEY: misc_feature
1360 <222> LOCATION: (57)..(60)
1361 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

E--> 1363 <400> SEQUENCE: 49

1365 Phe Glu Gly Asp Asp Gly Phe Cys Val Phe Glu Ser Asn Ala Ile Ala
1366 1 5 10 15
1369 Tyr Tyr Val Ser Xaa Xaa Xaa Xaa Asn Glu Glu Leu Arg Gly Ser Thr
1370 20 25 30
1373 Pro Glu Ala Ala Ala Gln Val Val Gln Trp Val Ser Phe Ala Asp Ser

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Input Set : A:\Sequence 1.ST25.txt

Output Set: N:\CRF4\05302003\I712638.raw

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1374          35          40          45
1377 Asp Ile Val Pro Pro Ala Ser Thr Xaa Xaa Xaa Xaa
1378          50          55          60
E--> 1381 <210> SEQ ID NO: SEQ ID NO 50
1382 <211> LENGTH: 60
1383 <212> TYPE: PRT
1384 <213> ORGANISM: Zea mays
1387 <220> FEATURE:
1388 <221> NAME/KEY: misc_feature
1389 <222> LOCATION: (3)..(3)
1390 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
E--> 1392 <400> SEQUENCE: 50
1394 Leu Glu Xaa Asp Gly Asp Leu Thr Leu Phe Glu Ser Arg Ala Ile Ala
1395 1          5          10          15
1398 Arg His Val Leu Arg Lys His Lys Pro Glu Leu Leu Gly Gly Gly Arg
1399          20          25          30
1402 Leu Glu Gln Thr Ala Met Val Asp Val Trp Leu Glu Val Glu Ala His
1403          35          40          45
1406 Gln Leu Ser Pro Pro Ala Ile Ala Ile Val Val Glu
1407          50          55          60
E--> 1410 <210> SEQ ID NO: SEQ ID NO 51
1411 <211> LENGTH: 60
1412 <212> TYPE: PRT
1413 <213> ORGANISM: Oryctolagus cuniculus
E--> 1415 <400> SEQUENCE: 51
1417 Trp Val Phe Pro Thr Leu Gly Ile Met His His Asn Lys Gln Ala Thr
1418 1          5          10          15
1421 Glu Asn Ala Lys Glu Glu Val Lys Arg Ile Leu Gly Leu Leu Asp Ala
1422          20          25          30
1425 His Leu Lys Thr Arg Thr Phe Leu Val Gly Glu Arg Val Thr Leu Ala
1426          35          40          45
1429 Asp Ile Thr Val Val Cys Thr Leu Leu Trp Leu Tyr
1430          50          55          60
E--> 1433 <210> SEQ ID NO: SEQ ID NO 52
1434 <211> LENGTH: 60
1435 <212> TYPE: PRT
1436 <213> ORGANISM: Zea mays
1439 <220> FEATURE:
1440 <221> NAME/KEY: misc_feature
1441 <222> LOCATION: (54)..(54)
1442 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
E--> 1444 <400> SEQUENCE: 52
1446 Cys Val Phe Ala Pro Phe Leu Gly Arg Glu Arg Asn Gln Ala Val Val
1447 1          5          10          15
1450 Asp Glu Asn Val Glu Lys Leu Lys Lys Val Leu Glu Val Tyr Glu Ala
1451          20          25          30
1454 Arg Leu Ala Thr Cys Thr Tyr Leu Ala Gly Asp Phe Leu Ser Leu Ala
1455          35          40          45
1458 Asp Leu Ser Pro Phe Xaa Thr Ile Met His Cys Leu
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Input Set : A:\Sequence 1.ST25.txt

Output Set: N:\CRF4\05302003\I712638.raw

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1459      50      55      60
E--> 1462 <210> SEQ ID NO: SEQ ID NO 53
1463 <211> LENGTH: 60
1464 <212> TYPE: PRT
1465 <213> ORGANISM: Oryctolagus cuniculus
E--> 1467 <400> SEQUENCE: 53
1469 Lys Gln Val Leu Glu Pro Ser Phe Arg Gln Ala Phe Pro Asn Thr Asn
1470 1          5          10          15
1473 Arg Trp Phe Leu Thr Cys Ile Asn Gln Pro Gln Phe Arg Ala Val Leu
1474          20          25          30
1477 Gly Glu Val Lys Leu Cys Glu Lys Met Ala Gln Phe Asp Ala Lys Lys
1478          35          40          45
1481 Phe Ala Glu Ser Gln Pro Lys Lys Asp Thr Pro Arg
1482      50      55      60
E--> 1485 <210> SEQ ID NO: SEQ ID NO 54
1486 <211> LENGTH: 60
1487 <212> TYPE: PRT
1488 <213> ORGANISM: Zea mays
1491 <220> FEATURE:
1492 <221> NAME/KEY: misc_feature
1493 <222> LOCATION: (27)..(29)
1494 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1496 <220> FEATURE:
1497 <221> NAME/KEY: misc_feature
1498 <222> LOCATION: (33)..(39)
1499 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1501 <220> FEATURE:
1502 <221> NAME/KEY: misc_feature
1503 <222> LOCATION: (45)..(46)
1504 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
1506 <220> FEATURE:
1507 <221> NAME/KEY: misc_feature
1508 <222> LOCATION: (59)..(60)
1509 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
E--> 1511 <400> SEQUENCE: 54
1513 Met Ala Thr Glu Tyr Ala Ala Leu Val His Ala Leu Pro His Val Ser
1514 1          5          10          15
1517 Ala Trp Trp Gln Gly Leu Ala Ala Arg Pro Xaa Xaa Xaa Ala Ala Asn
1518          20          25          30
1521 Xaa Xaa Xaa Xaa Xaa Xaa Lys Val Ala Gln Phe Xaa Xaa Met Pro
1522          35          40          45
1525 Val Gly Ala Gly Ala Pro Lys Glu Gln Glu Xaa Xaa
1526      50      55      60
E--> 1529 <210> SEQ ID NO: SEQ ID NO 55
1530 <211> LENGTH: 30
1531 <212> TYPE: PRT
1532 <213> ORGANISM: Caenorhabditis elegans
E--> 1534 <400> SEQUENCE: 55
1536 Ile Phe Asp Asn Thr Asn Asp Leu Val Ala Ser Leu Leu Gly Ile Ser
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/712,638

DATE: 05/30/2003

TIME: 11:49:40

Input Set : A:\Sequence 1.ST25.txt

Output Set: N:\CRF4\05302003\I712638.raw

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1537 1          5          10          15
1540 Ser Ile Thr Val Tyr Arg Lys Arg Lys Arg Ile Gly Glu Glu
1541          20          25          30
E--> 1544 <210> SEQ ID NO: SEQ ID NO 56
1545 <211> LENGTH: 30
1546 <212> TYPE: PRT
1547 <213> ORGANISM: Caenorhabditis elegans
E--> 1549 <400> SEQUENCE: 56
1551 Tyr Leu Ser Gly Ser Thr Arg Ala Lys Leu Ala Glu Ser Leu Gly Leu
1552 1          5          10          15
1555 Ser Asp Asn Gln Val Lys Val Trp Phe Gln Asn Arg Arg Thr
1556          20          25          30
E--> 1559 <210> SEQ ID NO: SEQ ID NO 57
1560 <211> LENGTH: 30
1561 <212> TYPE: PRT
1562 <213> ORGANISM: Caenorhabditis elegans
E--> 1564 <400> SEQUENCE: 57
1566 Ile Ser Arg Ser Thr Ala Lys Glu Val Ala Thr Ala Arg Gly Ile Ser
1567 1          5          10          15
1570 Glu Gly Thr Val Tyr Ser Tyr Leu Ala Met Ala Val Glu Lys
1571          20          25          30
E--> 1574 <210> SEQ ID NO: SEQ ID NO 58
1575 <211> LENGTH: 30
1576 <212> TYPE: PRT
1577 <213> ORGANISM: Caenorhabditis elegans
E--> 1579 <400> SEQUENCE: 58
1581 Leu Ser Ala Tyr Thr Ile Ser Asp Leu Ala Lys His Phe Asn Val Ser
1582 1          5          10          15
1585 Lys Ile Glu Ile Leu Lys Ile Asp Ile Glu Gly Ala Glu Leu
1586          20          25          30
E--> 1589 <210> SEQ ID NO: SEQ ID NO 59
1590 <211> LENGTH: 30
1591 <212> TYPE: PRT
1592 <213> ORGANISM: Caenorhabditis elegans
E--> 1594 <400> SEQUENCE: 59
1596 Asn Glu Val Leu Asn Leu Asn Glu Val Ala Lys Glu Leu Asn Ile Ser
1597 1          5          10          15
1600 Lys Arg Arg Val Tyr Asp Val Ile Asn Val Leu Glu Gly Leu
1601          20          25          30
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/712,638

DATE: 05/30/2003

TIME: 11:49:41

Input Set : A:\Sequence 1.ST25.txt

Output Set: N:\CRF4\05302003\I712638.raw

L:16 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:21 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:1
L:39 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:60 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:2
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
M:341 Repeated in SeqNo=0
L:78 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:83 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:3
L:101 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:122 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:4
L:140 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:145 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:5
L:163 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:168 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:6
L:186 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:191 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:7
L:209 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:214 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:8
L:232 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:243 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:9
L:261 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:266 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:10
L:284 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:305 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:11
L:323 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:328 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:12
L:346 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:367 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:13
L:385 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:390 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:14
L:408 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:429 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:15
L:447 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:452 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:16
L:470 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:486 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:17
L:504 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:520 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:18
L:538 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:543 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:19
L:561 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:572 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:20
L:590 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:601 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:21
L:619 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:624 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:22
L:642 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:647 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:23

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/712,638

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TIME: 11:49:41

Input Set : A:\Sequence 1.ST25.txt

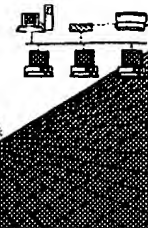
Output Set: N:\CRF4\05302003\I712638.raw

L:665 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:670 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:24
L:688 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:693 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:25

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RAW SEQUENCE LISTING ERROR REPORT

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Revised 04/24/2003